

Engineering Open House

REVOLUTIONS IN ENGINEERING

Agricultural Engineering

College of Engineering
University of Illinois at Urbana-Champaign
Friday, March 5, 10:00 a.m.–8:00 p.m.
Saturday, March 6, 9:00 a.m.–4:00 p.m.
1976

Agricultural Engineering
The Profession with America's Future

1976 ENGINEERING OPEN HOUSE
March 5 and 6, 1976

Welcome to Agricultural Engineering Open House. The Department of Agricultural Engineering bridges the gap between two great disciplines, engineering and agriculture. The program is actually a part of the College of Engineering, but the cooperation and interaction between the Agricultural Engineers and the College of Agriculture are always evident.

The Agricultural Engineering curriculum offers a student a choice of interests. The curriculum has four areas of specialization.

Many students choose to major in Power and Machinery. After these students graduate, they may be engaged in farm tractor and machinery development, design, plant engineering, or consulting.

The Soil and Water area provides excellent opportunities for many young engineers. An increasing awareness of the necessity for the planned use of our water and soil resources on every level of activity--county through international--has set new standards for the engineers who must cope with problems of water shortage, flood control, and optimization of agronomic production through more efficient drainage, irrigation, and erosion control practices.

The Processing graduate may be involved with any sort of problem in grain or materials handling, drying, or storage. The processing graduate has knowledge of electronics and psychrometry and may work in many areas of industry.

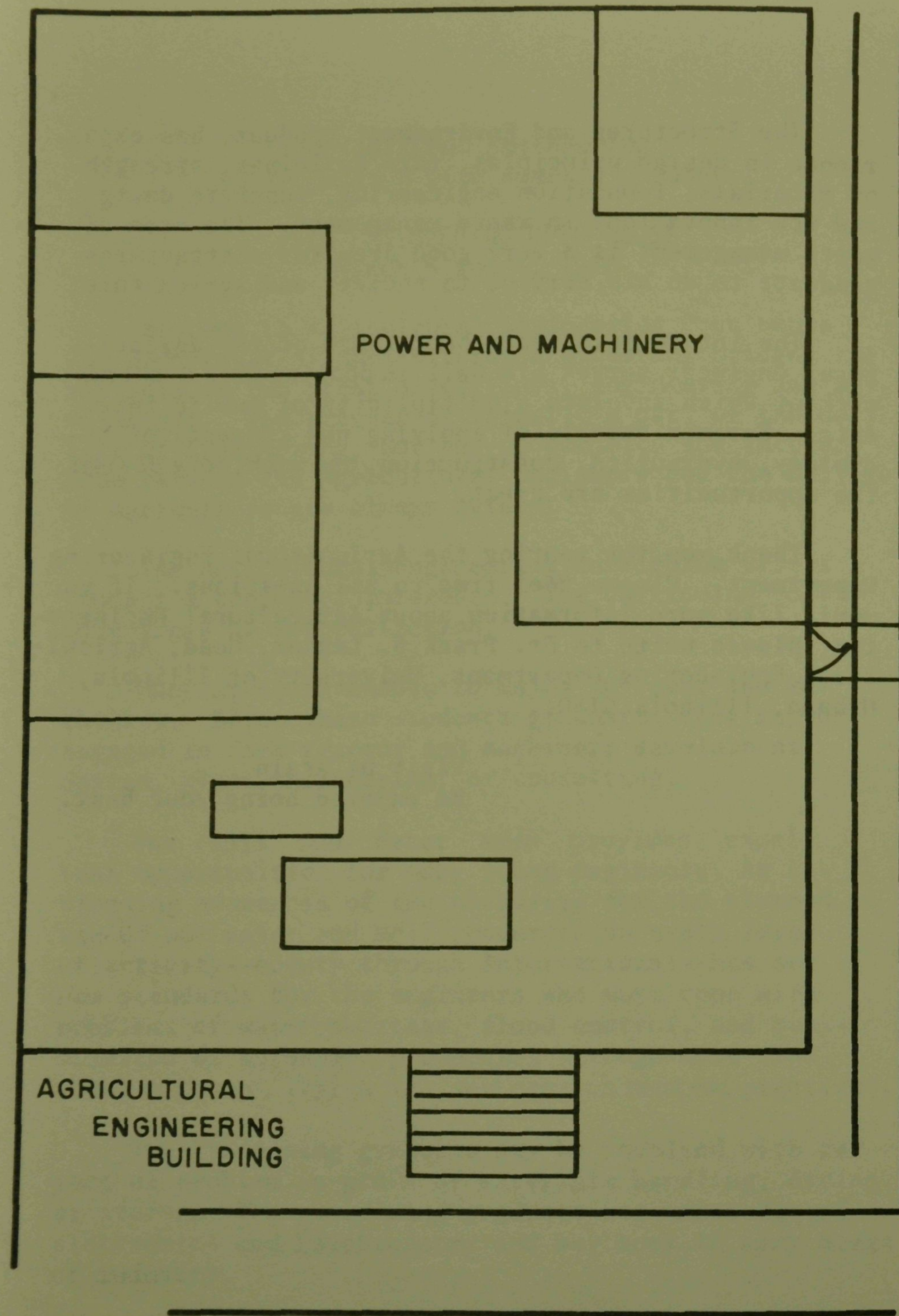
The Structures and Environment graduate has experience in design principles, farm buildings, strength of materials, foundation engineering, concrete design, and new innovations in waste management. The area of waste management is a very good area for a structures graduate to do his service to society and agriculture.

The interdisciplinary background of the agricultural engineer serves him well in dealing with problems, each of which involves a multiplicity of public interests. For men capable of applying new concepts of hydrology, hydraulics, construction, and machinery design, the opportunities are great.

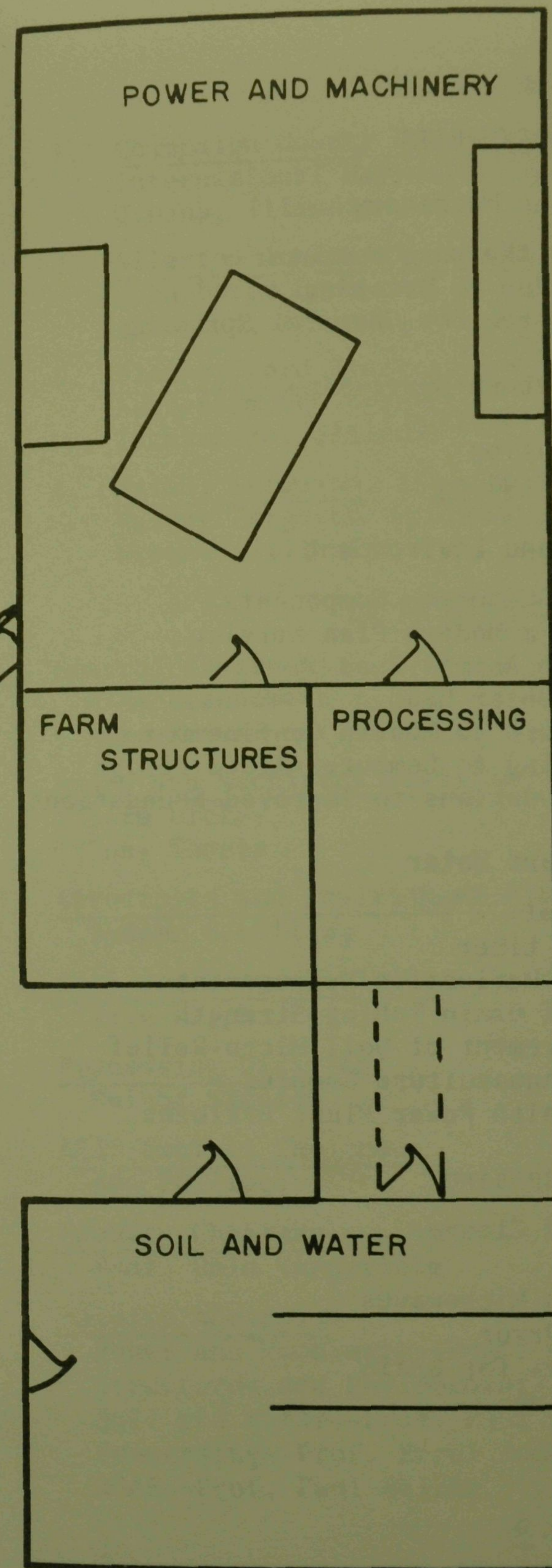
Thank you for touring the Agricultural Engineering Department. Please feel free to ask questions. If you would like more information about Agricultural Engineering, please write to Dr. Frank B. Lanham, Head, Agricultural Engineering Department, University of Illinois, Urbana, Illinois 61801.

Visit us again.

We enjoyed being your host.



X BUS STOP



AGRICULTURAL
ENGINEERING
TOURS

AG. ENGR. RESEARCH LAB.

1976 EXHIBITS

Power and Machinery

1. Cyclic Phenomenon on the Wang Computer
2. Soybean Seed Damage due to Metering
3. New Certification System for Chemical Spraying Operators
4. New Equipment for Soybean Harvesting
5. A Study of Gas Tank Vibration
6. Dynamometer Demonstration
7. Non-Symmetrical Fan Studies

Structures and Environment

1. From Logs to Precast Concrete Components
2. From Simple Plans to a Modern Plan Service
3. From Waste Product to Animal Feed
4. From Little Heat to Solar Heat
5. From Animals on Pasture to Modern Confinement
6. From Little Engineering to Computer-Aided Design
7. From Loose-Stone Foundations to Improved Foundations

Soil and Water

1. Feedlot Runoff Control
2. Environetics Control Liner
3. Plastic Drain Tubing Deflection Measurements
4. Laboratory Testing of Drain Tubing Strength
5. "Clod-Hopper"--Measurement of Soil Micro-Relief
6. Power Plant-Feedlot-Aquaculture Complex
7. Heating Greenhouses With Power Plant Effluent

Processing

1. Soybean Aspirator and Cleaner
2. Corn Quality Exhibit
3. Soybeans Roasted With Microwaves
4. A Model Solar Grain Dryer
5. Modern Moisture Meters for Grain
6. Silica Gel Grain Drying
7. Grain Bin Safety

DEALER EXHIBITS

1. Champaign County Power Equipment Company
International Harvester Equipment
Urbana, Illinois
2. Allerton Implement Company
John Deere Equipment
Allerton, Illinois
3. Plotner Ford Tractor, Inc.
Ford Farm Equipment
Thomasboro, Illinois
4. Massey Ferguson, Inc., Farm Center
Massey Ferguson Equipment
Urbana, Illinois

DEPARTMENT CHAIRMEN

General Chairmen:

Mike Brennemann

Mike Krause

Power and Machinery Division:

Norm Dickey

Tony Thoele

Structures and Environment Division:

Ludger Schilling

Soil and Water Division:

Dave Ralph

Processing Division:

Dwight Simpson

ASAE Exhibit Chairman:

Ken Philippi

Faculty Chairman:

Prof. Dale Vanderholm

Faculty Advisors:

Power and Machinery--Prof. Donnell Hunt

Structures and Environment--Prof. James Curtis

Soil and Water--Prof. Paul Walker

Processing--Prof. Errol Rodda

ASAE--Prof. Paul Walker